LAB Programe-1 Develop ver Java program that prints all real so lutions to the quadratic equation ax + bx + c = 0. Read in a, b, c and we the quadratic formula of the discriminate b2-49c is negative display a message stating that there are no soul solutions. Algorithm - Ingold -1) Take input of values a, b, com 2) coldactate the D = 62 - 490 value - 100 3) if Dis positive point the real roots use formula r. si -b f Jop) Wans g. down motion? 4) if D is negative print the imaginary tooks using $\gamma = -b \pm i J \overline{D} = -b \pm J - \overline{D}$ Programe: import Jave wil. # = class Quedrabic Equalisms C public whatic void main (String angs ED) double ryra; Scamper . Sc = new Scanner . Cogstern in): System - out. println . (11 Enter a, b, c value: 1+1).

double a = Sc. next Boable (); double b = Sc. next Double (); double c = Sc. nextbouble(); double D=bb-4tate; if CDcO)d System out println ("Im agirary roots" +

(-b/3/a) f "(f "(f "(math: sqret (-b)/3/a) + "[i]");

System out pointln ("Imagirary roots:"+ (-b/2/a) +

"-"+ "(math sqrt(-b)/3/a) + "[i"]. System out printly ("real roots: ") + x1)
System out printly ("real roots: ") + x1) Enter a, b, c value: Imaginary root 1: 1.0+1.0i Imaginary root 2: 1.0+1.01

LAB2 programs: Develop a Saver program to create a class Student -with members up, name, an array credits 2, -an array marks. Include methods to accept 2,-display obtails and a method to calculate Som of astudent. > Ladrull 2005 Take simple of USn, namy, Coldits, marks. acapt () will assign values its the von pame, FindSpa Divill calcuste the Sapa of the Student;

Joseph Jordsop we get when of Caradifs marked

Such subject Day voing formula

Then Find Sapa by voing formula

Sapa = Total Sum (Sumfarility)

Caradifs marks chisplay () will display USN, Nam, total

Program: Import java, wil. " class Student & p int USN ; nounce int [] whedits a new int (100). int C3 marks = new Int Clooj; void acoppt Cint user, (nt E) creadits, into) marky this - Usnz Usnigarlas Him this credito = wadely 50 mo and rate. this marks = marks; this marks = marks;

this name = name;

word display Cdouble tot Int Sapa) L

System -out-println ("In Warne" + name "In Ush

Usn + "Intotal marks." I that + "In Sapar" tSgpar)3. 22how int Eind Sgpa Cint Usum) L int 2900; intsum =0, V=0-, for (int x: marks) (Sym == Ccredits (V++] *x); 3 Sga = sum/(vsvm*10); rower (Sapa);

